

5. (Canceled) The anode of claim 1, further comprising insulating members that connect adjacent segments of the plurality of anode segments to each other.

6. (Canceled) The anode of claim 1, wherein each of the plurality of anode segments is constructed from copper or a copper alloy.

7. (Canceled) The anode of claim 1, wherein each one of the plurality of anode segments is closer to a distinct portion of the cathode than the rest of the cathode.

8. (Canceled) The anode of claim 1, wherein at least one of the anode segments is cylindrical.

18. (Canceled) The anode of claim 1, wherein at least two of the plurality of anode segments have substantially coplanar lower segment surfaces.

19. (Canceled) The anode of claim 5, wherein the insulating members are formed of an insulative material that limits electric current passing between adjacent anode segments such that each anode segment can be individually electrically biased to a separate potential.

20. (Canceled) The anode of claim 1, wherein at least one of the anode segments is rectangular.

21. (Canceled) An anode to be used with a metal deposition system containing a cathode, the anode comprising:

a plurality of anode segments; and

an electrical source coupled to each of the anode segments, wherein at least one of the anode segments can be repositioned relative to other anode segments.

22. (Canceled) An electrolytic cell, comprising:

an anode and a cathode, the anode comprising:

a plurality of concentric anode segments; and  
an electrical source coupled to each of the anode segments; and  
an anode base wherein the anode is mounted to at least one anode support  
mounted on the anode base.

23. (Canceled) The electrolytic cell of claim 22, further comprising a controller  
connected to the electrical source.

24. (Canceled) The electrolytic cell of claim 22, further comprising a hydrophilic  
membrane.

25. (Canceled) The electrolytic cell of claim 22, wherein each anode support is  
connected to at least one of the anode segments.

26. (Canceled) The electrolytic cell of claim 22, further comprising insulating  
members that connect adjacent segments of the plurality of anode segments to each  
other, and the insulating members and the anode support maintain each of the anode  
segments fixed in position relative to the anode base.

27. (Canceled) The anode of claim 21, wherein the anode comprises a plurality of  
circular and non-concentric anode segments.

28. (Canceled) An electrolytic cell, comprising:  
an anode and a cathode, the anode comprising:  
a plurality of circular and non-concentric anode segments; and  
an electrical source coupled to each of the anode segments; and  
an anode base wherein the anode is mounted to at least one anode support  
mounted on the anode base.

29. (Canceled) The electrolytic cell of claim 28, wherein at least one of the anode  
segments can be repositioned relative to other anode segments.

30. (New) An electrolytic cell, comprising:  
an electrolyte container;  
a plurality of electrical contacts positioned in an electrolyte container, the plurality of electrical contacts defining a processing plane;  
a plurality of concentric anode segments positioned in the electrolyte container, wherein an upper surface of each of the plurality of anode segments is in direct line of sight of the entire processing plane; and  
an electrical source coupled to each of the anode segments.
31. (New) The electrolytic cell of claim 30, further comprising insulating members positionable between adjacent segments of the plurality of anode segments.
32. (New) The electrolytic cell of claim 31, wherein a vertical distance between the plurality of anode segments and the processing plane is less than a vertical distance between the insulating members and the processing plane.
33. (New) The electrolytic cell of claim 30, further comprising an anode base, wherein at least one of the plurality of anode segments is mounted to at least one anode support mounted on the anode base.
34. (New) The electrolytic cell of claim 33, wherein each anode support is connected to at least one of the plurality of anode segments.
35. (New) The electrolytic cell of claim 33, further comprising insulating members positioned between adjacent segments of the plurality of anode segments and below the upper surface of the plurality of anode segments.
36. (New) An electrolytic cell, comprising:  
an electrolyte container;  
a plurality of electrical contacts positioned in the electrolyte container, the plurality of electrical contacts defining a processing plane;

a plurality of concentric anode segments positioned in the electrolyte container;  
and

insulating members positioned between adjacent segments of the plurality of anode segments, wherein a vertical distance between the plurality of anode segments and the processing plane is less than a vertical distance between the insulating members and the processing plane.

37. (New) The electrolytic cell of claim 36, wherein at least two of the plurality of anode segments have substantially coplanar upper segment surfaces.

38. (New) The electrolytic cell of claim 36, wherein at least two of the plurality of anode segments have substantially coplanar lower segment surfaces.

39. (New) The electrolytic cell of claim 36, further comprising an electrical source coupled to each of the plurality of anode segments.

40. (New) The electrolytic cell of claim 36, wherein an upper surface of each of the plurality of anode segments is in direct line of sight of the entire processing plane.

41. (New) The electrolytic cell of claim 36, further comprising an anode base, wherein at least one of the plurality of anode segments is mounted to at least one anode support mounted on the anode base.

42. (New) The electrolytic cell of claim 41, wherein each anode support is connected to at least one of the anode segments.

43. (New) An electrolytic cell, comprising:  
an electrolyte container;  
a plurality of electrical contacts positioned in the electrolyte container, the plurality of electrical contacts defining a processing plane;  
a plurality of concentric anode segments positioned in the electrolyte container

and adapted to generate a substantially uniform electric field across the width of the electroplating cell; and

insulating members positioned between adjacent segments of the plurality of anode segments.

44. (New) The electrolytic cell of claim 43, further comprising electrolyte solution that contacts the plurality of anode segments, wherein electrolyte solution that is between adjacent anode segments contacts both of the adjacent anode segments.

45. (New) The electrolyte solution of claim 43, wherein one of the plurality of anode segments is capable of generating electric flux lines that extend outside the processing plane.

46. (New) The electrolyte cell of claim 43, further comprising an electrical source coupled to each of the plurality of anode segments.

47. (New) The electrolyte cell of claim 43, wherein an upper surface of each of the plurality of anode segments is in direct line of sight of the entire processing plane.

48. (New) The electrolyte cell of claim 43, wherein a vertical distance between the plurality of anode segments and the processing plane is less than a vertical distance between the insulating members and the processing plane.

49. (New) The electrolyte cell of claim 48, wherein an upper surface of each of the plurality of anode segments is in direct line of sight of the entire processing plane.

C<sub>1</sub>